

**M3H/M4H/M5H HISTORY OF MATHEMATICS:
EXAMINATION, 2016**

Section A: answer 5 questions out of 10; 10 marks each

Write brief historical accounts of *five* of the following:

- Q1. The Platonic solids.
- Q2. The Fundamental Theorem of Arithmetic.
- Q3. The Fundamental Theorem of Algebra.
- Q4. The mathematics of perspective.
- Q5. The mathematics of the rainbow.
- Q6. The formula of spherical excess.
- Q7. The emergence of the decimal system.
- Q8. The mathematics of heat.
- Q9. The Prime Number Theorem.
- Q10. The mathematics of length, area and volume.

Section B: answer 2 questions out of 4; 25 marks each

Write historical accounts of *two* of the following:

- Q1. Conics and orbits, with reference to the work of Kepler and Newton.
- Q2. The normal distribution, the Central Limit Theorem and the Method of Least Squares.
- Q3. The development of linear algebra.
- Q4. The development of the real number system $\mathbb{R}$.

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